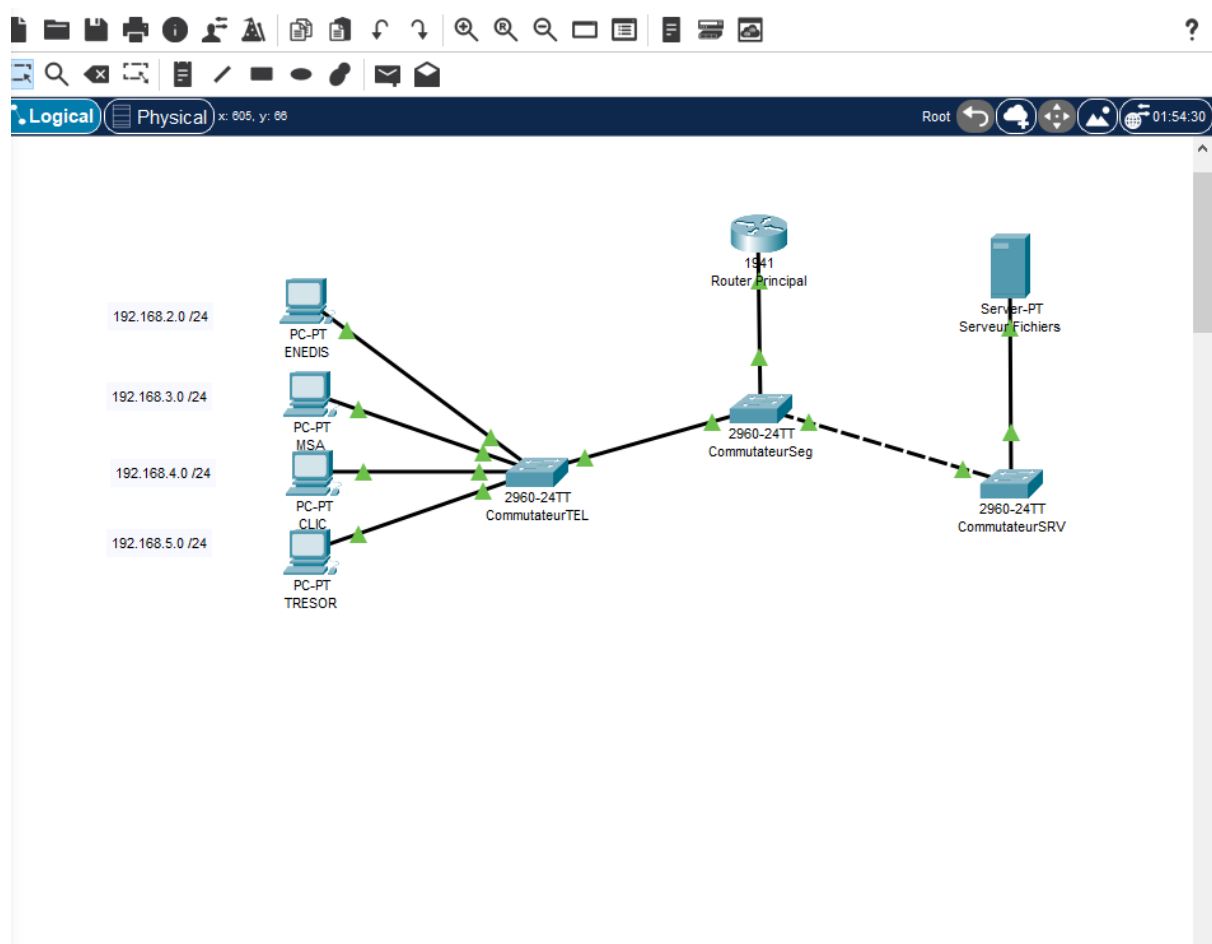


**06/03/2023**

## **Travail à faire :**

1) Préparez l'environnement de travail d'après les informations fournies



## 2) Configurez le commutateur TEL pour intégrer les VLAN

>> Configuration pour ENEDIS (FastEthernet 0/2) : VLAN =20

The screenshot shows the 'CommutateurTEL' configuration window. The 'Config' tab is selected. On the left, a list of interfaces from FastEthernet0/1 to FastEthernet0/17 is shown, with FastEthernet0/2 highlighted. The main area displays the configuration for FastEthernet0/2. The 'Port Status' is 'On'. 'Bandwidth' is set to '100 Mbps' and 'Duplex' is 'Full Duplex', both with 'Auto' selected. The 'Access' mode is selected, and the 'VLAN' is set to '20'. The 'Tx Ring Limit' is also set to '20'. Below the configuration area, the 'Equivalent IOS Commands' section shows a list of commands, including line protocol status changes and a configuration command. At the bottom left, there is a 'Top' button.

CommutateurTEL

Physical Config CLI Attributes

**INTERFACE**

- FastEthernet0/1
- FastEthernet0/2
- FastEthernet0/3
- FastEthernet0/4
- FastEthernet0/5
- FastEthernet0/6
- FastEthernet0/7
- FastEthernet0/8
- FastEthernet0/9
- FastEthernet0/10
- FastEthernet0/11
- FastEthernet0/12
- FastEthernet0/13
- FastEthernet0/14
- FastEthernet0/15
- FastEthernet0/16
- FastEthernet0/17

**FastEthernet0/2**

Port Status ☒ On

Bandwidth ☒ 100 Mbps ☐ 10 Mbps ☒ Auto

Duplex ☐ Half Duplex ☒ Full Duplex ☒ Auto

Access VLAN 20

Tx Ring Limit 20

Equivalent IOS Commands

```
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/24, changed state to down
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/24, changed state to up

Switch>config
Translating "config"...domain server (255.255.255.255)
% Unknown command or computer name, or unable to find computer address

Switch>
```

☐ Top

>> Configuration pour MSA(FastEthernet 0/3) : VLAN =30

CommuteurTEL

Physical Config CLI Attributes

**INTERFACE**

- FastEthernet0/1
- FastEthernet0/2
- FastEthernet0/3
- FastEthernet0/4
- FastEthernet0/5
- FastEthernet0/6
- FastEthernet0/7
- FastEthernet0/8
- FastEthernet0/9
- FastEthernet0/10
- FastEthernet0/11
- FastEthernet0/12
- FastEthernet0/13
- FastEthernet0/14
- FastEthernet0/15
- FastEthernet0/16
- FastEthernet0/17

**FastEthernet0/3**

Port Status ☒ On

Bandwidth ☒ 100 Mbps ☐ 10 Mbps ☒ Auto

Duplex ☐ Half Duplex ☒ Full Duplex ☒ Auto

Access  VLAN

Tx Ring Limit

**Equivalent IOS Commands**

Enter configuration commands, one per line. End with CNTL/Z.

```
Switch(config)#interface FastEthernet0/3
Switch(config-if)#
Switch(config-if)#exit
Switch(config)#interface FastEthernet0/4
Switch(config-if)#
Switch(config-if)#exit
Switch(config)#interface FastEthernet0/5
Switch(config-if)#
Switch(config-if)#exit
Switch(config)#interface FastEthernet0/3
Switch(config-if)#
```

☐ Top

>>Configuration pour CLIC (FastEthernet 0/4) : VLAN =40

CommutateurTEL

Physical **Config** CLI Attributes

**INTERFACE**

- FastEthernet0/1
- FastEthernet0/2
- FastEthernet0/3
- FastEthernet0/4**
- FastEthernet0/5
- FastEthernet0/6
- FastEthernet0/7
- FastEthernet0/8
- FastEthernet0/9
- FastEthernet0/10
- FastEthernet0/11
- FastEthernet0/12
- FastEthernet0/13
- FastEthernet0/14
- FastEthernet0/15
- FastEthernet0/16
- FastEthernet0/17

**FastEthernet0/4**

Port Status ☒ On

Bandwidth ☒ 100 Mbps ☐ 10 Mbps ☒ Auto

Duplex ☐ Half Duplex ☒ Full Duplex ☒ Auto

Access  VLAN

Tx Ring Limit

Equivalent IOS Commands

```
Switch(config-if)#exit
Switch(config)#interface FastEthernet0/4
Switch(config-if)#
Switch(config-if)#exit
Switch(config)#interface FastEthernet0/5
Switch(config-if)#
Switch(config-if)#exit
Switch(config)#interface FastEthernet0/3
Switch(config-if)#
Switch(config-if)#exit
Switch(config)#interface FastEthernet0/4
Switch(config-if)#
```

☐ Top

>>Configuration pour TRÉSOR (FastEthernet 0/5) : VLAN =50

INTERFACE
FastEthernet0/1
FastEthernet0/2
FastEthernet0/3
FastEthernet0/4
FastEthernet0/5
FastEthernet0/6
FastEthernet0/7
FastEthernet0/8
FastEthernet0/9
FastEthernet0/10
FastEthernet0/11
FastEthernet0/12
FastEthernet0/13
FastEthernet0/14
FastEthernet0/15
FastEthernet0/16
FastEthernet0/17

## FastEthernet0/5

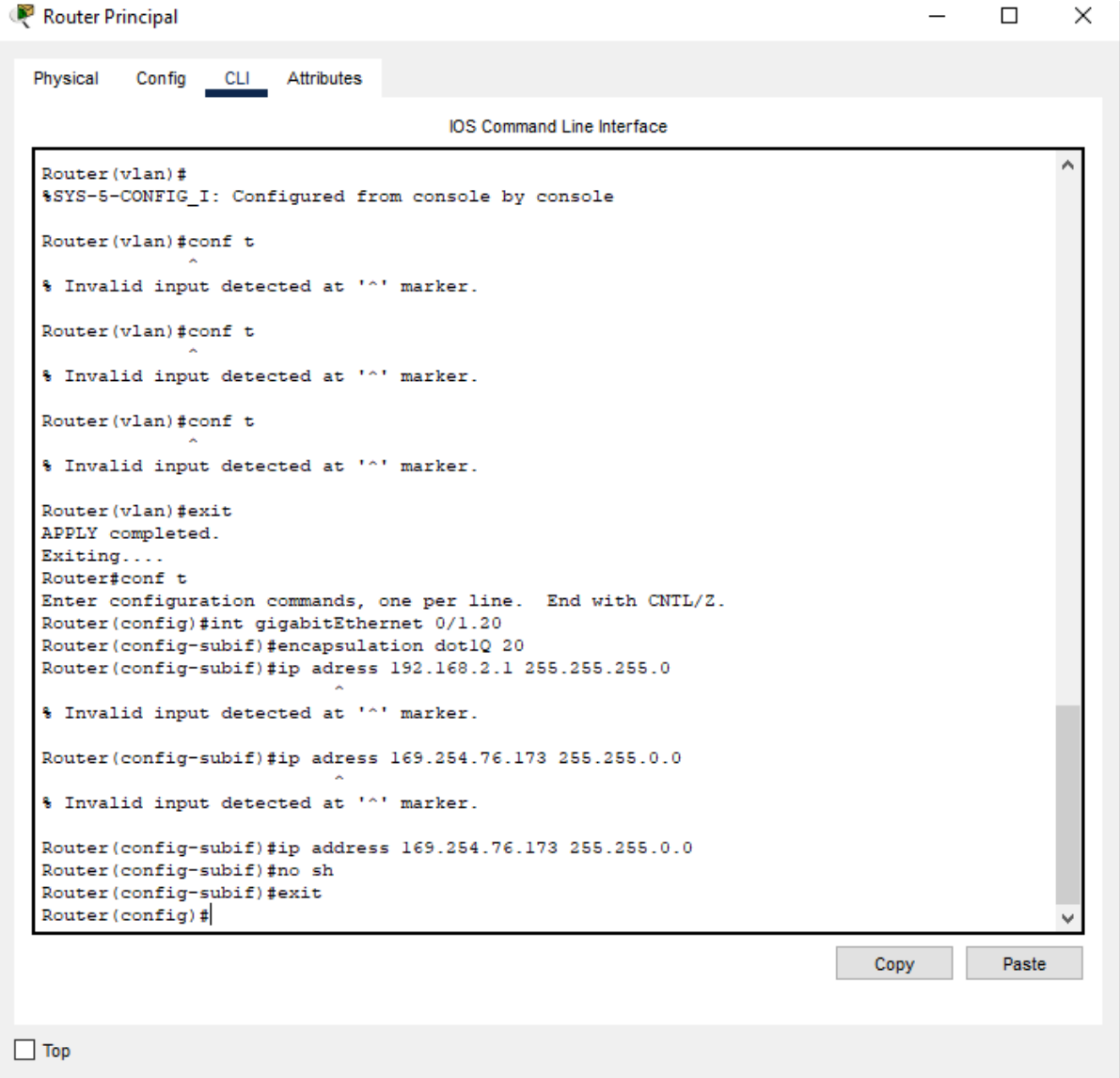
Port Status ☒ On  
Bandwidth ☒ 100 Mbps ☐ 10 Mbps ☒ Auto  
Duplex ☐ Half Duplex ☒ Full Duplex ☒ Auto  
Access VLAN 50  
Tx Ring Limit 50

## Equivalent IOS Commands

```
Switch(config-if)#exit
Switch(config)#interface FastEthernet0/5
Switch(config-if)#
Switch(config-if)#exit
Switch(config)#interface FastEthernet0/3
Switch(config-if)#
Switch(config-if)#exit
Switch(config)#interface FastEthernet0/4
Switch(config-if)#
Switch(config-if)#exit
Switch(config)#interface FastEthernet0/5
Switch(config-if)#
```

### 3) CONFIGURATION DU ROUTEUR PRINCIPAL

-Configuration pour ENEDIS (FastEthernet 0/2) : VLAN =20  
Ip address : 169.254.76.173 , 255.255.0.0



The screenshot shows a window titled "Router Principal" with tabs for Physical, Config, CLI, and Attributes. The CLI tab is active, displaying the "IOS Command Line Interface". The terminal output shows the following sequence of commands and responses:

```
Router(vlan)#
%SYS-5-CONFIG_I: Configured from console by console

Router(vlan)#conf t
^
% Invalid input detected at '^' marker.

Router(vlan)#conf t
^
% Invalid input detected at '^' marker.

Router(vlan)#conf t
^
% Invalid input detected at '^' marker.

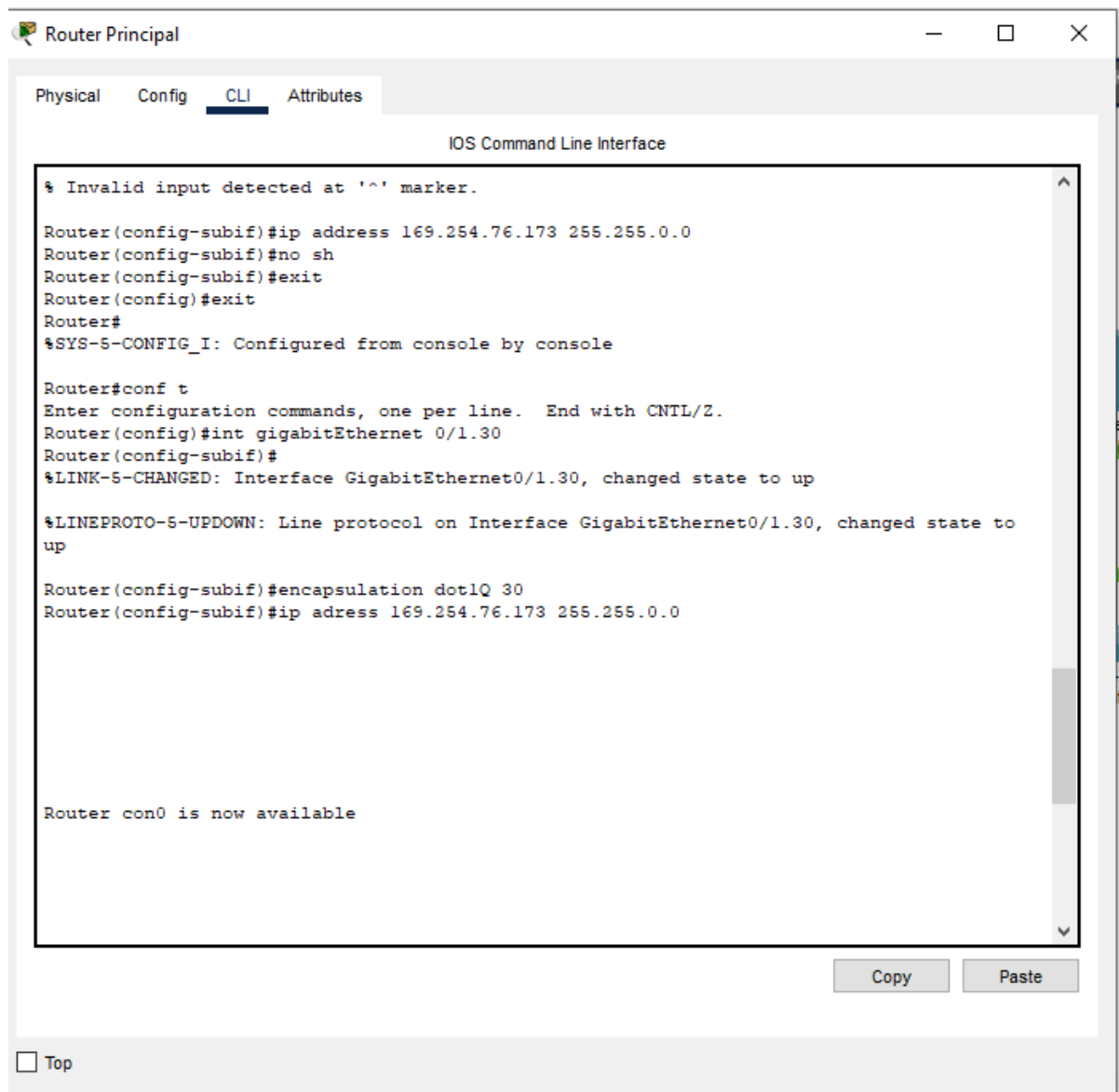
Router(vlan)#exit
APPLY completed.
Exiting....
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#int gigabitEthernet 0/1.20
Router(config-subif)#encapsulation dot1Q 20
Router(config-subif)#ip address 192.168.2.1 255.255.255.0
^
% Invalid input detected at '^' marker.

Router(config-subif)#ip address 169.254.76.173 255.255.0.0
^
% Invalid input detected at '^' marker.

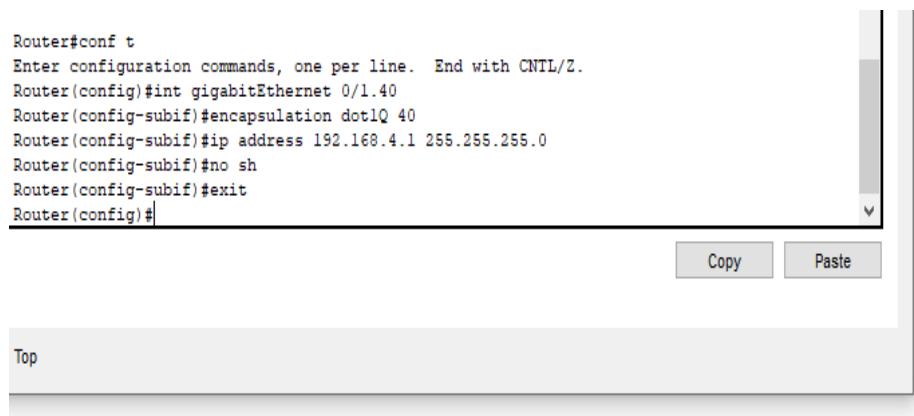
Router(config-subif)#ip address 169.254.76.173 255.255.0.0
Router(config-subif)#no sh
Router(config-subif)#exit
Router(config)#
```

At the bottom of the window, there are "Copy" and "Paste" buttons, and a "Top" button with a checkbox.

- Configuration pour MSA(FastEthernet 0/3) : VLAN =30  
Ip address 192.168.3.1 , 255.255.255.0



- Configuration pour CLIC(FastEthernet 0/3) : VLAN =40  
Ip address 192.168.4.1 , 255.255.255.0



- Configuration pour TRÉSOR(FastEthernet 0/3) : VLAN =50  
Ip address 192.168.5.1 , 255.255.255.0

```
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#int gigabitEthernet 0/1.50
Router(config-subif)#
%LINK-5-CHANGED: Interface GigabitEthernet0/1.50, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/1.50, changed state to up

Router(config-subif)#encapsulation dot1Q 50
Router(config-subif)#ip address 192.168.5.1 255.255.255.0
Router(config-subif)#no sh
Router(config-subif)#exit
Router(config)#
```

Copy

Paste

Top

#### 4) Réalisez les tests pour vérifier le bon fonctionnement de l'infrastructure

